WHAT IS CLAIMED IS:

7.

1

1	1.	An isolated nucleic acid selected from the group consisting of:
2	(a)	a nucleic acid encoding a protein comprising the amino acid sequence of
3	SEQ ID NO:2 or a fragment thereof;	
4	(b)	a nucleic acid comprising a coding region of the nucleotide sequence of
5	SEQ ID NO:1;	
6	(c)	a nucleic acid encoding a protein that comprises the amino acid sequence
7	of SEQ ID N	IO:2, in which one or more amino acids are substituted, deleted, inserted and/or
8	added and that is functionally equivalent to a protein consisting of the amino acid sequence	
9	of SEQ ID NO:2;	
10	(d)	a nucleic acid that hybridizes under stringent conditions with a nucleic acid
11	consisting of the nucleotide sequence of SEQ ID NO:1, and that encodes a protein	
12	functionally equivalent to a protein consisting of the amino acid sequence of SEQ ID NO:2;	
13	and	
14	(e)	a nucleic acid encoding a protein that has at least 60% identity to the amino acid
15	sequence of SEQ ID NO:2.	
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
1	2.	An isolated nucleic acid encoding the amino acid sequence of SEQ ID NO:2
2	or a fragment thereof.	
1	3.	The nucleic acid of claim 1, wherein the number of amino acids substituted,
2	deleted, inserted and/or added is 30 or fewer.	
1	4.	The nucleic acid of claim 1, wherein the nucleic acid encodes a fusion protein
2	comprising a first amino acid sequence as shown in SEQ ID NO:2 fused to a second amino	
3	acid sequen	ce.
1	5.	A vector into which the nucleic acid of claim 1 is inserted.
1	6.	A vector into which the nucleic acid of claim 2 is inserted.

A transformant harboring the nucleic acid of claim 1.

1

2

3

1

2

3

1

1

1

2

3

1

2

3

4

5

- 1 8. A transformant harboring the nucleic acid of claim 2.
- 1 9. A transformant harboring the vector of claim 5.
- 1 10. A transformant harboring the vector of claim 6.
- 1 11. A substantially purified polypeptide encoded by the nucleic acid of claim 1.
- 1 12. A substantially purified polypeptide encoded by the nucleic acid of claim 2.
 - 13. A method for producing a polypeptide, the method comprising the steps of culturing the transformant of claim 9 and recovering a polypeptide expressed from the transformant or the culture supernatant thereof.
 - 14. A method for producing a polypeptide, the method comprising the steps of (a) culturing the transformant of claim 10 and (b) recovering a polypeptide expressed from the transformant or the culture supernatant thereof.
 - 15. An antibody against the polypeptide of claim 11.
 - 16. An antibody against the polypeptide of claim 12.
 - 17. A polynucleotide that hybridizes with the nucleic acid comprising the nucleotide sequence of SEQ ID NO:1 or the complementary strand thereof and that comprises at least 15 nucleotides.
 - 18. A method for screening for a compound that binds to the polypeptide of claim 11, the method comprising the steps of:
 - (a) contacting a test sample with the polypeptide or a partial peptide thereof,
 - (b) detecting a binding activity of the test sample to the polypeptide or the partial peptide thereof, and
- 6 (c) selecting a compound comprising the binding activity to the polypeptide or 7 the partial peptide thereof.

1

2

3

4

5

6

7

1

1

- 19. A method for screening for a compound that binds to the polypeptide of claim 12, the method comprising the steps of:
 - (a) contacting a test sample with the polypeptide or a partial peptide thereof,
- (b) detecting a binding activity of the test sample to the polypeptide or the partial peptide thereof, and
 - (c) selecting a compound comprising the binding activity to the polypeptide or the partial peptide thereof.
 - 20. A compound isolated by the method of claim 18.
 - 21. A compound isolated by the method of claim 19.